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Applicant: FUJI XEROX CO LTD

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B41J3/00; G06F15/68; H04N1/46**

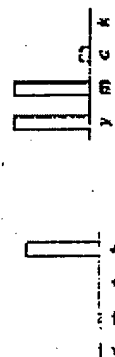
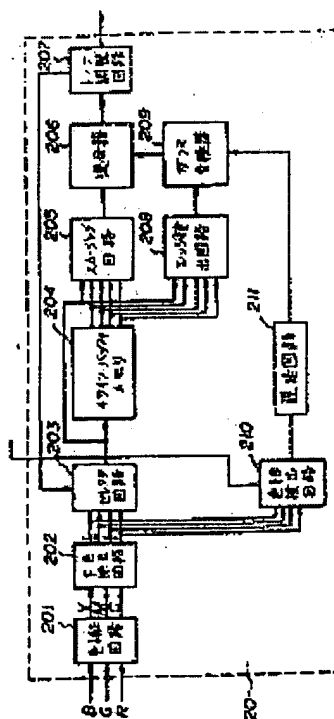
- european: H04N1/46

Application number: JP19880095158 19880418

Priority number(s): JP19880095158 19880418

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PURPOSE: To regenerate a high quality image by preventing the turbidity of a color character or the deterioration in the reproduction of a black character, by detecting not only the hue of an original image but also the edge part thereof and controlling an edge signal on the basis of a hue signal. **CONSTITUTION:** A gamma converter 209 converts the edge signal from an edge detection circuit 208 non-linearly and a mixer 206 judges whether a pixel during scanning is an edge part, on the basis of the edge emphasis signal from the gamma converter 209. As a result, when said pixel is the edge part and the judge signal from a hue detection circuit 210 is '1', the edge emphasis signal is added to the smoothing signal from a smoothing circuit 205 to be outputted. When the judge signal from the hue detection circuit 210 is '0', both of the edge emphasis signal and the smoothing signal are outputted as '0'. Therefore, a c-signal being an unnecessary color component is erased in a red character and a y-signal being a necessary color component is emphasized and all of color components other than a k-signal are erased in a black character to emphasize the k-signal.



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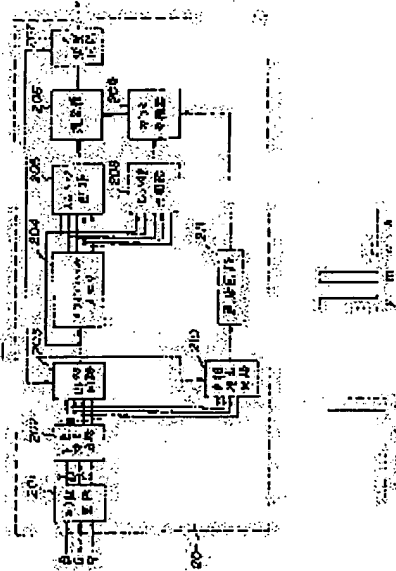
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(54) COLOR IMAGE PROCESSING APPARATUS

(57)Abstract:

PURPOSE: To regenerate a high quality image by preventing the turbidity of a color character or the deterioration in the reproduction of a black character, by detecting not only the hue of an original image but also the edge part thereof and controlling an edge signal on the basis of a hue signal.

CONSTITUTION: A gamma converter 209 converts the edge signal from an edge detection circuit 208 non-linearly and a mixer 206 judges whether a pixel during scanning is an edge part, on the basis of the edge emphasis signal from the gamma converter 209. As a result, when said pixel is the edge part and the judge signal from a hue detection circuit 210 is '1', the edge emphasis signal is added to the smoothing signal from a smoothing circuit 205 to be outputted. When the judge signal from the hue detection circuit 210 is '0', both of the edge emphasis signal and the smoothing signal are outputted as '0'. Therefore, a c-signal being an unnecessary color component is erased in a red character and a y-signal being a necessary color component is emphasized and all of color components other than a k-signal are erased in a black character to emphasize the k-signal.



LEGAL STATUS

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